

Comparisons of Job Characteristics

Focus Occupation: [Medical Scientists, Except Epidemiologists \(19-1042\)](#)

Associated Occupation: [Family and General Practitioners \(29-1062\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)

Associated Occupation: Family and General Practitioners (29-1062)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Medicine and Dentistry	3.7	23.9	15.6	<<	Extensive education and/or training may be required
Psychology	6.4	21.9	8.6	<<	Extensive education and/or training may be required
Biology	3.7	20.7	19.8	0	Current knowledge level may be sufficient
Therapy and Counseling	3.8	20.3	5.2	<<	Extensive education and/or training may be required
Chemistry	4.8	12.0	15.8	>>	Current knowledge level is likely more than sufficient
Sociology and Anthropology	4.1	11.8	7.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)

Associated Occupation: Family and General Practitioners (29-1062)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Active Listening	11.0	16.9	13.0	<<	Extensive development of skills in this area may be required
Reading Comprehension	10.7	16.0	17.2	0	Current skill level may be sufficient
Critical Thinking	10.8	15.6	16.2	0	Current skill level may be sufficient
Social Perceptiveness	9.1	15.2	10.5	<<	Extensive development of skills in this area may be required
Judgment and Decision Making	9.4	15.1	12.8	<	A higher skill level may be required

Speaking	10.8	15.1	13.8	0	Current skill level may be sufficient
Science	4.5	15.0	17.6	>	Skill level is likely sufficient
Writing	9.2	13.9	13.9	0	Current skill level may be sufficient
Complex Problem Solving	9.1	13.5	14.6	0	Current skill level may be sufficient
Active Learning	8.7	13.0	13.4	0	Current skill level may be sufficient
Service Orientation	7.9	13.0	9.3	<<	Extensive development of skills in this area may be required
Time Management	8.9	12.0	11.0	0	Current skill level may be sufficient
Persuasion	7.4	11.5	8.6	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	10.6	9.5	<	A higher skill level may be required
Operations Analysis	5.0	10.6	10.0	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042) Associated Occupation: Family and General Practitioners (29-1062)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	20.4	16.1	<<	Extensive improvement in abilities may be required
Oral Expression	12.4	18.3	17.5	0	Current ability level may be sufficient
Inductive Reasoning	10.2	17.9	18.6	0	Current ability level may be sufficient
Oral Comprehension	12.5	17.7	18.8	0	Current ability level may be sufficient
Written Comprehension	11.0	16.1	18.3	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	15.0	16.0	0	Current ability level may be sufficient
Written Expression	9.8	13.9	14.9	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.4	10.3	0	Current ability level may be sufficient
Speed of Closure	5.9	9.1	6.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 83
Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042) Associated Occupation: Family and General Practitioners (29-1062)		
Work Activities		Exclusivity of Activity
Analyze medical data		57
Collect clinical data		56

Communicate technical information	4
Conduct medical tests	80
Follow infectious materials procedures	52
Identify body response variations	57
Interpret medical laboratory test results	72
Interpret x-rays	76
Make decisions	24
Make presentations on health or medical issues	50
Order medical laboratory tests	76
Perform noninvasive medical diagnostic techniques	92
Take vital signs	56
Understand drug products	84
Understand properties or composition of drugs	64
Use clinical problem solving techniques	69
Use interpersonal communication techniques	10
Use knowledge of investigation techniques	16
Use knowledge of medical terminology	40
Use medical diagnostic techniques	71
Use medical lab techniques	81
Use research methodology procedures in health care	63
Use sanitation practices in health care settings	48
Write technical health or medical documents	73

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 56

Focus Occupation: Medical Scientists, Except Epidemiologists (19-1042)
Associated Occupation: Family and General Practitioners (29-1062)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrocardiography EKG units and related products	20
Industry specific software	1
Medical ultrasound and doppler and echo imaging products	19

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.